

Press release

Paper-Flex – Lumitronix illuminates paper, with over 27000 lumens

In March 2020, Lumitronix LED-Technik GmbH, based in Hechingen, Swabia, presents Paper-Flex, an innovative, flexible LED module made of paper that enables customers to create completely new lighting solutions. The "luminous paper" is assembled on the ultra-modern, in-house Flex production line. Flexible carrier materials of all kinds can be processed here in almost endless lengths using the roll-to-roll process - including paper and foils.

The standard version of Paper-Flex has a length of 24.85 metres and a width of 35 centimetres. It consists of a total of 497 LED strands, each five centimeters wide. Each LED strand has seven LEDs, which together produce a luminous flux of 55 lumens. In total, the complete roll of Paper-Flex provides a luminous flux of 27335 lumens. As the Paper-Flex modules are divided into separate strands, they can be individually assembled in different lengths according to customer requirements. Currently, rolls of up to 50 meters are possible.

The LEDs installed on the Paper-Flex module have a colour temperature of 2700 K and a CRI of over 80. In addition, individual configurations of Paper-Flex with regard to the LED types in terms of colour temperature, CRI and efficiency are available on request.

Extremely flat, extremely light and sustainable

"Compared to rigid LED modules, Paper-Flex is much easier to process. The paper modules to be adhered can be installed in a time-saving manner and are also touch-proof due to the low voltage of 24 V." Christian Hoffmann, CEO of Lumitronix, reports.

In addition, the extremely low weight - one strand weighs about 2 grams - and the roll shape ensure that storage and transport costs are significantly minimized. Moreover, the paper substrate is ultra-flat (approx. 0.8 mm after assembly) and thus more than suitable for large-area applications where a low installation height is required. The diffusion openness of Paper-Flex is a decisive factor in ensuring that the paper modules can be used as wallpaper. Due to the breathability of the paper there is no danger of moisture accumulation.

Opening the door to new lighting solutions

"Paper-Flex is a future-oriented product that uses paper as a sustainable and environmentally friendly basis. This makes the paper module a novelty in the industry, enabling it to be used in a wide range of applications," Hoffmann continues.

Possible applications and areas of use for the Paper-Flex LED modules include: wallpapers, very large advertising surfaces, decorations and backlighting of furniture, trade fair construction, luminaire manufacture and basically all large-area applications with radii and curved shapes.

About Lumitronix

Lumitronix has been one of the leading specialists for LEDs and LED products for many years. As a competent partner for the industry, Lumitronix possesses broad application knowledge from numerous sectors. The Swabian company, based in Hechingen, Germany, has ISO 9001 certification and is also the official distributor of market-leading manufacturers of LED technology. Lumitronix is not only involved in the distribution of LED products, but also develops and manufactures in-house according to customer-specific requirements. Two ultra-modern production lines with the latest machine technology allow the assembly of both rigid and flexible PCBs. A special feature of the flex production is the reel-to-reel processing, with which almost endless lengths can be realized. The production site in Hechingen furthermore provides the benefit of being able to respond quickly and reliably to individual customer wishes and requirements. Quality Made in Germany.

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